

*DFH***TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

7

Application Number

10/678,741

Filing Date

October 3, 2003

First Named Inventor

Hassan MOSTAFAVI

Art Unit

2882

Examiner Name

Craig E. Church

Attorney Docket Number

2018721-7012094003

ENCLOSURES (check all that apply)☐ Fee Transmittal Form☐ Fee Attached☐ Amendment / Reply☐ After Final☐ Affidavits/declaration(s)☐ Extension of Time Request☐ Express Abandonment Request☒ Information Disclosure Statement☐ Certified Copy of Priority Document(s)☐ Reply to Missing Parts/
Incomplete Application☐ Reply to Missing Parts
under 37 CFR1.52 or 1.53☐ Drawing(s)☐ Licensing-related Papers☐ Petition☐ Petition to Convert to a
Provisional Application☐ Power of Attorney, Revocation
Change of Correspondence Address☐ Terminal Disclaimer☐ Request for Refund☐ CD, Number of CD(s) _____☐ Landscape Table on CD☐ After Allowance Communication to TC☐ Appeal Communication to Board
of Appeals and Interferences☐ Appeal Communication to TC
(Appeal Notice, Brief, Reply Brief)☐ Proprietary Information☐ Status Letter☒ Other Enclosure(s)
(please identify below):Form PTO/SB/08b (2 pages);
27 references; postcard receipt**Remarks****SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

Firm

Bingham McCutchen LLP

Signature

Printed Name

Gerald Chan

Date

July 20, 2005

Reg.
No.

51,541

CERTIFICATE OF TRANSMISSION/MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below

Signature

Typed or printed name

Mary E. Zimmerman

Date

July 20, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application for:

Hassan MOSTAFAVI

Serial No.: 10/678,741

Filing Date: October 3, 2003

For: METHOD AND SYSTEM FOR
RADIATION APPLICATION

Confirmation No.: 6107

Examiner: Craig E. Church

Group Art Unit: 6107

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR §§ 1.97 and 198, the items identified in this Information Disclosure Statement (IDS) are being brought to the attention of the Office. The items are listed on the attached form PTO/SB/08b. The Examiner is requested to make these documents of record.

The items identified in this IDS may or may not be "material" pursuant to 37 CFR § 1.56. The submission thereof by Applicants is not to be construed as an admission that any such patent, publication or other information referred to therein is material or considered to be material (37 CFR § 1.97(h)), or even qualifies as "prior art" under 35 USC § 102 with respect to this invention unless specifically designated by Applicants as such.

1. Timing of the Information Disclosure Statement:

☒ This IDS is believed to be timely in that it is being submitted under 37 CFR § 1.97(b), that is (1) with the new patent application submitted herein (37 CFR § 1.97(a)); or (2) within three months of the filing date of the application, which is not a continued prosecution application filed under § 1.53(d) or (3) within three months of entry of the national stage as set forth in 37 CFR § 1.491; or (4) before the mailing of a first Office action on the merits; or (5) before the mailing of a first Office action after filing a request for continued examination under § 1.114. Thus, no fee is required.

- ☒ However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and charge the fee due under 37 CFR § 1.17(p) to the deposit account referenced below.
- ☐ However, if the undersigned is in error in this regard, Applicant respectfully requests that the Office consider this IDS as filed under 37 CFR § 1.97(c), if applicable, and a statement under 37 CFR § 1.97(e) is included below, thus no fee is required.
- ☐ This IDS is being submitted under 37 CFR § 1.97(c), that is after mailing of a first Office Action on the merits, but before a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311.
- ☐ The fee due under 37 CFR § 1.17(p) is submitted herewith.
- ☐ The fee due under 37 CFR § 1.17(p) is being concurrently submitted with the filing of an electronic IDS submission. Thus, no additional fee is required.
- ☐ A statement under 37 CFR § 1.97(e) is included below, thus no fee is required. In the event that this IDS is not received before a Final Action or a Notice of Allowance, then Applicant respectfully requests that the Office consider the filing of these papers to be submitted under 37 CFR § 1.97(d) and charge the fee due under 37 CFR § 1.17(p) to the deposit account below.
- ☐ This IDS is being submitted under 37 CFR § 1.97(d), that is after a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311, but before payment of the issue fee. A statement under 37 CFR § 1.97(e) is included below. The fee due under 37 CFR § 1.17(p) is submitted herewith.
- ☐ This IDS is being submitted under 37 CFR § 1.97(i), that is after a Final Action under 37 CFR § 1.113 or a Notice of Allowance under 37 CFR § 1.311, but before payment of the issue fee.

STATEMENT UNDER 37 CFR § 1.97(e):

- ☐ No item contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application more than three months prior to the filing of this IDS.
- ☐ No item contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing this statement after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of this IDS.

2. Copies of the Cited Items:

- ☒ Copies of all of the items listed on the attached form PTO/SB/08b are enclosed.
- ☐ Copies of only the following items listed on the attached forms PTO/SB/08a (Item Nos. *) and PTO/SB/08b (Item Nos. *) are enclosed.
- ☐ Copies of the following items listed on the attached form PTO/SB/08a (Item Nos. *) are not enclosed. See 37 CFR 1.98(a)(2)(i).
- ☐ Copies of the following documents listed in PTO/SB/08a (Item Nos. *) and PTO/SB/08b (Item Nos. *) are not supplied as they were previously cited by the Office or submitted in Information Disclosure Statements in related applications (Application No. *, filed *) and relied upon in this application for an earlier filing date under 35 USC § 120. See 37 CFR § 1.98(d). The Examiner is requested to make these documents of record.
- ☐ Copies of the following items listed on the attached forms PTO/SB/08a (Item Nos. *) and PTO/SB/08b (Item Nos. *) were cited in a foreign examination report in a related case. A copy of the search report and the cited references not already of record in this application are attached hereto.

3. Concise Explanation of Relevance:

- ☒ A concise explanation of relevance of the items listed on form PTO/SB/08b is not given.
- ☐ A concise explanation of relevance of [some of] the items listed on forms PTO/SB/08a and PTO/SB/08b is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references (copy attached).

4. Related Applications:

- ☒ Applicant(s) bring to the Office's attention the following related application(s): U.S. Serial No. 09/178,385 filed October 23, 1998 now U.S. Patent No. 6,279,579; U.S. Serial No. 09/178,383 filed October 23, 1998 now U.S. Patent No. 6,621,889; U.S. Serial No. 09/178,384 filed October 23, 1998 abandoned; U.S. Serial No. 09/712,724 filed November 14, 2000 now U.S. Patent No. 6,690,965; U.S. Serial No. 09/893,122 filed June 26, 2001; U.S. Serial No. 09/940,679 filed August 27, 2001; U.S. Serial No. 10/234,658

filed September 3, 2002; U.S. Serial No. 10/305,416 filed November 25, 2002; U.S. Serial No. 10/327,603 filed December 20, 2002; U.S. Serial No. 10/664,534 filed September 16, 2003; U.S. Serial No. 10/957,009 filed September 30, 2004; U.S. Serial No. 11/105,884 filed April 13, 2005; and U.S. Serial No. 11/116,699 filed April 27, 2005.

5. Conclusion:

Citation of the above documents shall not be construed as:


1. an admission that the documents are necessarily prior art with respect to the instant invention;
2. a representation that a search has been made, other than as described above; and
3. an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

It is respectfully requested that the Examiner indicate consideration of the cited references by returning a copy of the attached forms PTO/SB/08a and PTO/SB/08b with initials or other appropriate marks. In the unlikely event that the transmittal letter is separated from this document and the U.S. Patent Office determines that an extension and/or other relief is required, Applicants petition for any required relief including extensions of time and authorizes the Commissioner to charge the cost of such petitions and/or other fees due in connection with the filing of this document to **Deposit Account No. 50-2518** referencing **7012094003**.

However, the Commissioner is not authorized to charge the cost of the issue fee to the Deposit Account.

Respectfully submitted,

Dated: 7/20/05

By: 
Gerald Chan
Registration No. 51,541

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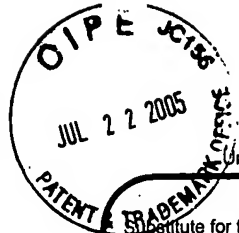
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/678,741
				Filing Date	October 3, 2003
				First Named Inventor	Hassan MOSTAFAVI
				Art Unit	2882
				Examiner Name	Craig E. Church
Sheet	1	of	2	Attorney Docket Number	2018721-7012094003

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²	
	1	AHLSTRÖM, K. H. et al. "Pulmonary MR Angiography with Ultrasmall Superparamagnetic Iron Oxide Particles as a Blood Pool Agent and a Navigator Echo for Respiratory Gating: Pilot Study" <i>Radiology</i> (June 1999) 211 (3):865-869		
	2	AXEL, L. et al. "Respiratory Effects in Two-Dimensional Fourier Transform MR Imaging" <i>Radiology</i> (Sept. 1986) 160 (3):795-801		
	3	DANIAS, P.G. et al. "Prospective Navigator Correction of Image Position for Coronary MR Angiography" <i>Radiology</i> (June 1997) 203 :733-736		
	4	DU, Y.P. et al. "A comparison of prospective and retrospective respiratory navigator gating in 3D MR coronary angiography" <i>Int'l J. Cardiovascular Imaging</i> (2001) 17 :287-294		
	5	DU, Y.P. "Prospective navigator gating with a dual acceptance window technique to reduce respiratory motion artifacts in 3D MR coronary angiography" <i>Int'l J. Cardiovascular Imaging</i> (2003) 19 :157-162		
	6	FELBLINGER, J. et al. "Effects of physiologic motion of the human brain upon quantitative ¹ H-MRS: analysis and correction by retrogating" <i>NMR in Biomedicine</i> (1998) 11 :107-114		
	7	FISHBEIN, K.W. et al. "The lever-coil: a simple, inexpensive sensor for respiratory and cardiac motion in MRI experiments" <i>Magnetic Resonance Imaging</i> (2001) 19 :881-889		
	8	HAACKE, E.M. and G.W. LENZ "Improving MR Image Quality in the Presence of Motion by Using Rephasing Gradients" <i>AJR</i> (June 1987) 148 :1251-1258		
	9	HUBER, A. et al. "Navigator Echo-Based Respiratory Gating for Three-Dimensional MR Coronary Angiography: Results from Healthy Volunteers and Patients with Proximal Coronary Artery Stenoses" <i>AJR</i> (July 1999) 173 :95-101		
	10	LIEBERMAN, J.M. et al. "Gated Magnetic Resonance Imaging of the Normal Diseased Heart" <i>Radiology</i> (Aug. 1984) 152 :465-470		
	11	MANKE, D. et al. "Respiratory Motion in Coronary Magnetic Resonance Angiography: A Comparison of Different Motion Models" <i>J. Magnetic Resonance Imaging</i> (2002) 15 :661-671		
	12	MANKE, D. et al. "Model Evaluation and Calibration for Prospective Respiratory Motion Correction in Coronary MR Angiography Based on 3-D Image Registration" <i>IEEE Transactions on Medical Imaging</i> (Sept. 2002) 21 (9):1132-1141		
	13	McCONNELL, M.V. et al. "Comparison of Respiratory Suppression Methods and Navigator Locations for MR Coronary Angiography" <i>AJR</i> (May 1997) 168 :1369-1375		
	14	McCONNELL, M.V. et al. "Prospective Adaptive Navigator Correction for Breath-Hold MR Coronary Angiography" <i>MRM</i> (1997) 37 :148-152		

Examiner's Signature	Date Considered
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.98. This information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Complete if Known

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

2

of

2

Application Number

10/678,741

Filing Date

October 3, 2003

First Named Inventor

Hassan MOSTAFAVI

Art Unit

2882

Examiner Name

Craig E. Church

Attorney Docket Number

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher city and/or country where published	T ²
	15	NIKOLAOU, K. et al. "Navigator Echo-Based Respiratory Gating for Three-Dimensional MR Coronary Angiography: Reduction of Scan Time Using a Slice Interpolation Technique" <i>J. Computer Assisted Tomography</i> (2001) 25(3):378-387	
	16	PLEIN, S. et al. "Three-Dimensional Coronary MR Angiography Performed with Subject-Specific Cardiac Acquisition Windows and Motion-Adapted Respiratory Gating" <i>AJR</i> (Feb. 2003) 180:505-512	
	17	POST, J.C. et al. "Three-Dimensional Respiratory-Gated MR Angiography of Coronary Arteries: Comparison with Conventional Coronary Angiography" <i>AJR</i> (June 1996) 166:1399-1404	
	18	REGENFUS, M. et al. "Comparison of Contrast-Enhanced Breath-Hold and Free-Breathing Respiratory-Gated Imaging in Three-Dimensional Magnetic Resonance Coronary Angiography" <i>Am. J. Cardiology</i> (Oct. 1, 2002) 90:725-730	
	19	SCHÄR, M. et al. "The Impact of Spatial Resolution and Respiratory Motion on MR Imaging of Atherosclerotic Plaque" <i>J. Magnetic Resonance Imaging</i> (2003) 17:538-544	
	20	SPUENTRUP, E. et al. "Respiratory motion artifact suppression in diffusion-weighted MR imaging of the spine" <i>Eur. Radiol.</i> (2003) 13:330-336	
	21	THICKMAN, D. et al. "Phase-Encoding Direction upon Magnetic Resonance Image Quality of the Heart" <i>Magnetic Resonance in Medicine</i> (1988) 6:390-396	
	22	WANG, Y. et al. "Navigator-Echo-based Real-Time Respiratory Gating and Triggering for Reduction of Respiration Effects in Three-dimensional Coronary MR Angiography" <i>Radiology</i> (1996) 198:55-60	
	23	WEBER, C. et al. "Correlation of 3D MR coronary angiography with selective coronary angiography: feasibility of the motion adapted gating technique" <i>Eur. Radiol.</i> (2002) 12:718-726	
	24	WIESMANN, F. "High-Resolution MRI with Cardiac and Respiratory Gating Allows for Accurate In Vivo Atherosclerotic Plaque Visualization in the Murine Aortic Arch" <i>Magnetic Resonance in Medicine</i> (2003) 50:69-74	
	25	WOOD, M.L. and R.M. HENKELMAN "Suppression of respiratory motion artifacts in magnetic resonance imaging" <i>Med. Phys.</i> (Nov/Dec 1996) 13(6):794-805	
	26	WORTHLEY, S.G. et al. "Cardiac gated breath-hold back blood MRI of the coronary artery wall: An in vivo and ex vivo comparison" <i>Int'l J. Cardiovascular Imaging</i> (2001) 17:195-201	
	27	YAMASHITA, Y. et al. "MR Imaging of Focal Lung Lesions: Elimination of Flow and Motion Artifact by Breath-Hold ECG-Gated and Black-Blood Techniques on T2-Weighted Turbo SE and STIR Sequences" <i>J. Magnetic Resonance Imaging</i> (1999) 9:691-698	

Examiner's
SignatureDate
Considered

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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